Use of ICT in Dental Education (Interactive Session)

VSPM Dental College, Nagpur 21 Jan 2020

Prashant Joshi | Mindbloom Technologies

Acknowledgements... and Disclaimer

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ICT Ubiquity

- Faster, cheaper processing power
- Increased storage spaces at affordable cost
- High speed connectivity
- Universal spread.

The Digital Divide

Digital migrants

Digital natives

ICT in Dental-Education

Teacher-centric



Existing Skills. Free Tools - offline and online

Necessity for eLearning





eLearning

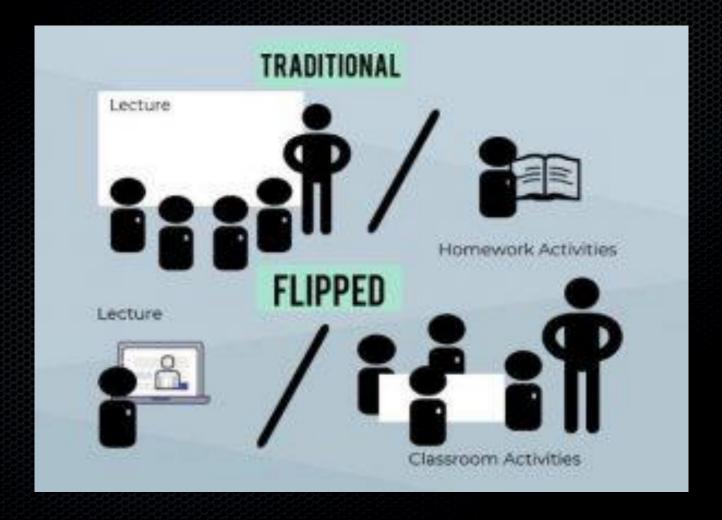
Use of electronic resources in formal teaching.



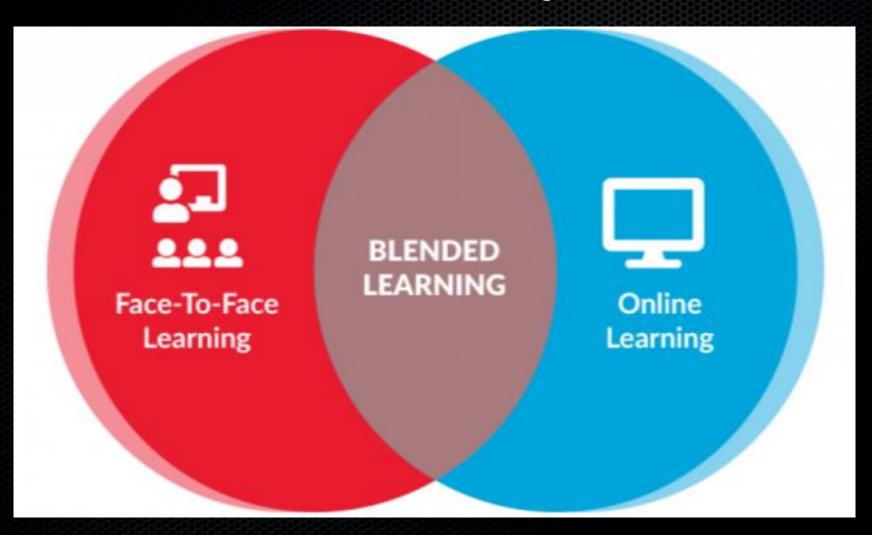
Smart Classrooms



Flipped Classroom



Blended learning



Dental students' perceptions of an online learning

Moshabab A. Asiry

Overall positive responses were reported by the students regarding the acceptability and usability of online learning. The students viewed online learning helpful as a supplement to their learning rather than a replacement for traditional teaching methods. Further studies are

Dental faculties have historically been slow to adopt technological innovations. Evidence that dental faculties are late adopters of e-curricula comes from a 2004 study of students in North American dental schools with mandatory laptop programs. Clearly, the adoption and widespread use of

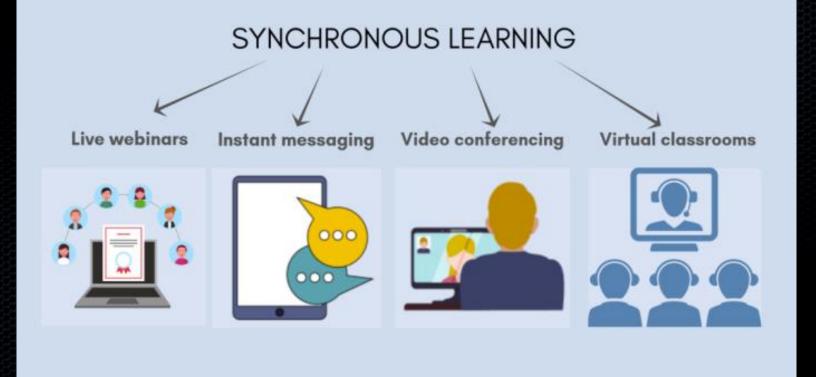
Blended Learning Best Practices from Health Science Teachers







Synchronous vs Asynchronous Learning



Mobile Learning



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Research Article | Assessment

e-Assessment in a Limited-Resources Dental School Using an Open-Source Learning Management System

Maha M.A. El Tantawi, Maha M. Abdelsalam, Ahmed M. Mourady and Ismail M.B. Elrifae Journal of Dental Education May 2015, 79 (5) 571-583;



- 🕋 / Blog / Elearning Blog
- / How a Small Dental Practice Implemented LMS and Turned into Online Denta

ELEARNING

How a Small Dental Practice Implemented LMS and Turned into Online Dental Program Rolled out Across Europe

Ilona Hetsevich

🛗 23 Jun 2017

@ Hits: 5210

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20 References

7 Figures

Using Moodle As An E-Learning Solution In Dental Education- A One Year Experience.

Conference Paper (PDF Available) - June 2012 with 311 Reads ①





Maha El Tantawi

ม 28.65 · Alexandria University



Ahmed Mourady

SMART Virtual Dental Learning Environment

Conference Paper (PDF Available) - January 2019 with 47 Reads (1)

DOI: 10.1109/ICBDSC.2019.8645584

Conference: 2019 4th MEC International Conference on Big Data and Smart City (ICBDSC)





Raza Hasan II 7.61 · Middle East College



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Syed Shahrukh Javed

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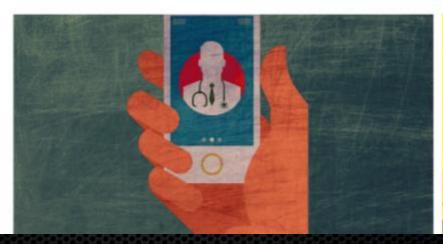
Hammad-ul-Haq

EDUCATION

Learning How to Practice Medicine—Virtually

Yale is poised to join the list of top-tier universities now offering online master's programs. Will these initiatives work?

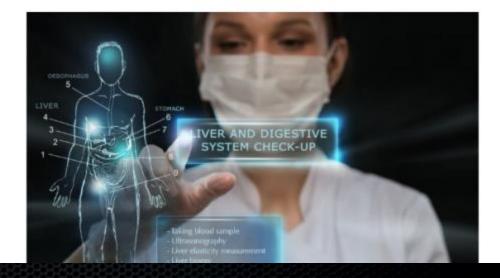
ALIA WONG MARCH 20, 2015





Surgical Simulation Training: Is Virtual Reality The Future Of Surgical Training?

Virtual reality simulated training can teach vital skills to surgeons before they take patients under the knife. Here are some of the benefits and the problem areas associated with surgical simulation training, or else virtual reality in the operating room.



Home » Health & Society, Medicine & Pharmacology »

Introduction to Dental Medicine (Coursera)

Created by: University of Pennsylvania Delivered by: Coursera

Taught by: Eric Stoopler and Thomas P. Sollecito and Uri Hangorsky

The mouth is the window into human health. This course provides an overview of dental medicine to engage, educate, excite and assist you in improving the oral health of your patients and members of your community.



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Ad Hands On: R, Deep Learning, Machine Learn Al, Python, RPA, Bots & many more Al/ML tool naukrilearning.wufoo.com

Learn more



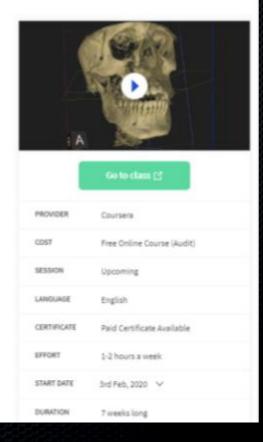
Overview

Class Central Tips

Learn How to Sign up to Coursera courses for free

1150+ Coursera Courses That Are Still Completely Free

The mouth is the window into human health. This course provides an overview of dental medicine to engage, educate, excite and assist you in improving the oral health of your patients and members of your community. We will review topics in dental medicine including scope of the field, what to expect in function, and some of the many ways that dysfunction may present for different patients. This will include discussions of mouth, jaw, and tooth anatomy, pathology, and treatment. We will talk about differences between patients and the unique roles that different members of the dental field may play in treatment depending on the patient and condition. This course starts from basic concepts and proceeds to review trends in current research and technology. We offer scientific background, some skills for patient evaluation and interview, and some suggestions for further learning for those interested in or involved in dental education.



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Research Article | Use of Technology in Dental Education

Dental Students' Use of Student-Managed Google Docs and Other Technologies in Collaborative Learning

More

Bradley S. Roberts, Eugenia P. Roberts, Steven Reynolds and Amy F. Stein

Journal of Dental Education April 2019, 83 (4) 437-444; DOI: https://doi.org/10.21815/JDE.019.053

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Apps



Smart Boards

- Interactive White Board (IWB)
- Projector, computer, and whiteboard all in one
- Large, touch-sensitive display





Ministry of Human Resource Development

Government of India

Gol Initiatives

10.	Resource	For students/Researchers		
		Audio-Video e-content		
	SWAYAM : Massive Open Online Courses	Earn credit through online courses	- Encoura to develo - Accept o SWAYAM - Form SV	
	SWAYAMPRABHA ☑: View digital courses on TV	Watch high quality educational programs 24*7	Provide f SWAYAM	
Digital content: access journals and e-books				
	National Digital Library №: e- content	Access e-content on multiple disciplines	- Get you - Form N	
	e-PG Pathshala ☑: Gateway for e- books upto PG	Get free books and curriculum-based e- content	Host e-be	
	Shodhganga &: A reservoir of Indian Theses	Access Research Theses of scholars of Indian Institutes	Get resea	
	e-ShodhSindhu d: e-journals	Get access to full text e-	Get acces	

Accelerated Hands on learning				
1	e-Yantra : Engineering for better tomorrow	Get hands on experience on embedded systems	Create e-Yantra labs for training in embedded systems in collaboration with IIT Bombay	
2	FOSSEE &: Free/Libre and Open Source Software for Education	- Access and volunteer for the use of open source software - Become FOSSEE fellow	Run labs in open source	
3	Spoken Tutorial ⊕: Tutorial in IT application	Self-training in IT fields	Encourage eminent faculty to provide training content for self-learning	
4	Virtual Labs ☑: Web-enabled experiments designed for remote – operation - Virtual Labs at a Glance ☑	Try curriculum based virtual experiments	Develop virtual experiments for Virtual labs suited to course curriculum in gap areas	
Track your progress				
1	VIDWAN &: Expert Database and National Research Network IRINS &: INDIAN RESEARCH INFORMATION NETWORK SYSTEM	Register on VIDWAN	Get your faculty registered on VIDWAN - Monitor research outcomes at different levels	



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Courses Met

Metallurgy and Material Science

NOC:Biomaterials for bone tissue engineering applications (Video)

Syllabus

Co-ordinated by : IISc Bangalore

Available from: 2016-08-22

Lec:1

Modules / Lectures

Introduction to Biomaterials and Biocompatibility

Lec1-Introduction

Lec2-Biomaterial

Lec3-Biocompatibility

Lec4-Host response

Defining tissue engineering scaffolds and implants

Structure and Properties of Proteins and Cells

Stem cels and Cell fate processes

Cell-material Interaction (in vitro and in vivo) and Clinical

Manufacturing of Biomaterials (metals, ceramics and polymers)

HA-based composites

Glass ceramics for orthopedic and dental applications, acetabular socket and femoral head, prototype



ACL

